

— Call for Papers —  
A Symposium on

**Advances in Manufacturing Processes for Energy Applications**

Sponsored by the ASME Manufacturing Engineering Division's  
*Manufacturing Processes Technical Committee*  
2019 ASME International Manufacturing Science and Engineering Conference (MSEC)\*  
June 10-14, 2019  
Pennsylvania State University, The Behrend College

**Technical Focus**

The U.S. energy manufacturing industry remains a powerful driver of the domestic and world economy. It has contributed > \$1.4 trillion in 2017 (based on current GDP from Energy Data), created significantly high amount of economic wealth and jobs than any other industry sector. The sector is undergoing a fast transition, facilitated by the rapid development of advanced technologies which are reshaping the capabilities in the traditional, non-traditional and clean energy fields. The advantages offered by the cutting-edge research and development are improving the U.S. economic position as an emerging, high-value global manufacturer and market; creating enduring, high-paying domestic jobs; and stimulating economic growth. Further advances are needed to reduce the time and cost required to translate energy innovations into commercial processes, products, and companies.

This symposium will focus on the advances in the manufacturing processes, methodologies and technologies for further improvement and optimization in the energy sector (Conventional, non-conventional and renewable energy). **Expert and professionals from both academia and industry are strongly encouraged to submit their research papers and articles related to (but not limited to) the following topics in manufacturing processes for energy applications:**

**Topics:**

- Modeling and simulation.
- Process development and optimization.
- Innovations in materials design and development.
- Advanced control and metrology.
- Development and implementations of environmentally acceptable machining lubricants.
- Automation and data analytics.
- Advances in non-destructive evaluation/testing (NDE/T).
- Novel methods of oil/gas, geo-thermal well drilling.

**Paper Submission**

Authors are encouraged to submit an abstract and full manuscript for review by **November 02, 2018** via the conference website. Final revised manuscripts must be submitted by **March 07, 2019**. The copyright transfer form must be filled out and the presenting author must pre-register by **April 05, 2019** or the paper will be withdrawn from the conference. Authors may also consult [www.asme.org/divisions/med/call/](http://www.asme.org/divisions/med/call/) for updates. **No papers are to be submitted to the organizers; submissions will only be accepted via the conference website at: <http://www.asmeconferences.org/msec2019/>.**

**Organizers**

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\* The conference is collocated with NAMRI/SME's 47th North American Manufacturing Research Conference (NAMRC47), which will have a separate call-for-papers. Please note that submission of the same paper to more than one conference is not permitted.